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NPIC/R-175/65

May 1965

PHOTOGRAPHIC INTERPRETATION REPORT

DARIEN (LU-TA) SHIPYARD LU-TA, CHINA

DECLASS REVIEW by NIMA/DOD

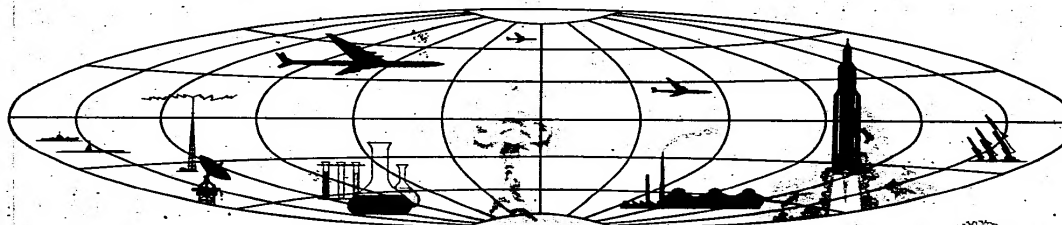


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DARIEN (LU-TA) SHIPYARD, LU-TA, CHINA

INTRODUCTION

This is one of a series of reports on Chinese Communist Shipyards and Port Facilities observed on aerial photography.

The Darien (Lu-ta) Shipyard is located on the northeast outskirts of Lu-ta, China, on the southern shore of Ta-lien Bay at 38°55-52N 121°38-20E (Figure 1). Lu-ta is also known as Ta-lien and Darien. This shipyard is listed in the Bombing Encyclopedia as Ta-lien Shipyard Port Arthur Darien [REDACTED]

25X1A

DESCRIPTION

The shipyard (Figure 2) is road- and rail-served, secured by a wall, and derives its elec-

trical power from a thermal electric powerplant located immediately south-southwest of the shipyard. Facilities include 3 building ways, 1 building area on a mole, 2 graving docks, 1 L-head pier, 9 piers, and 2 quayed areas for the fitting out of vessels. Vessels are moored to the piers in the NW section of the yard even though the entire area is quayed. Vessels are end launched from the 3 building ways and crane launched from the building area. Handling facilities include 4 tower hammerhead cranes and 6 tower jib cranes.

Significant construction activity during the period of photographic coverage used for this study [REDACTED] was that of a G-class SSB submarine on building way B3.

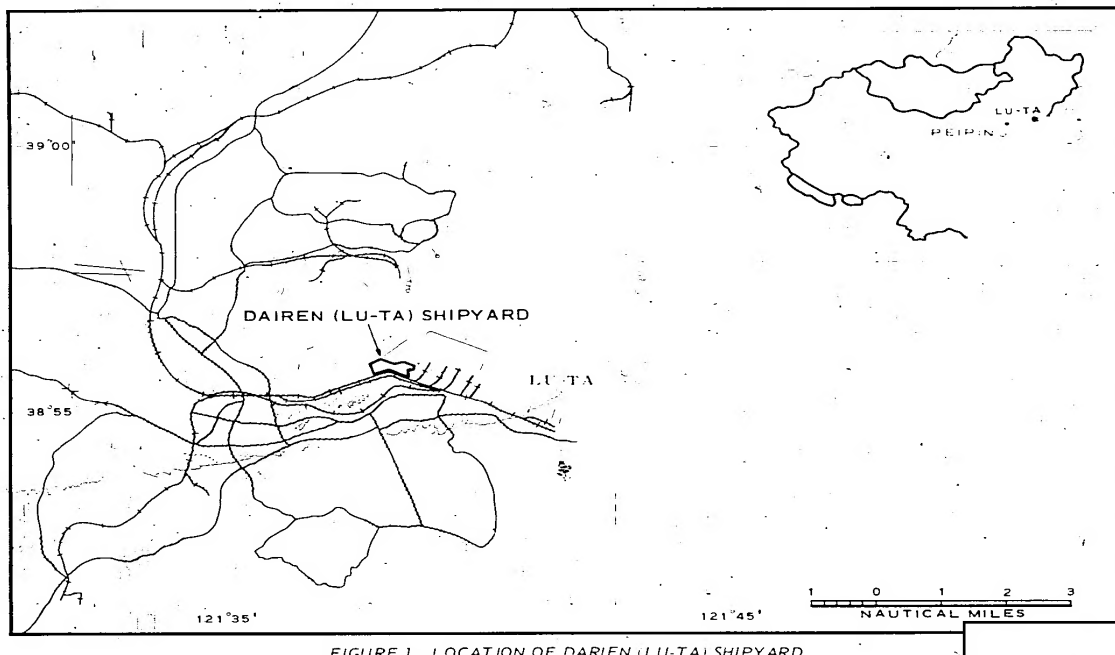
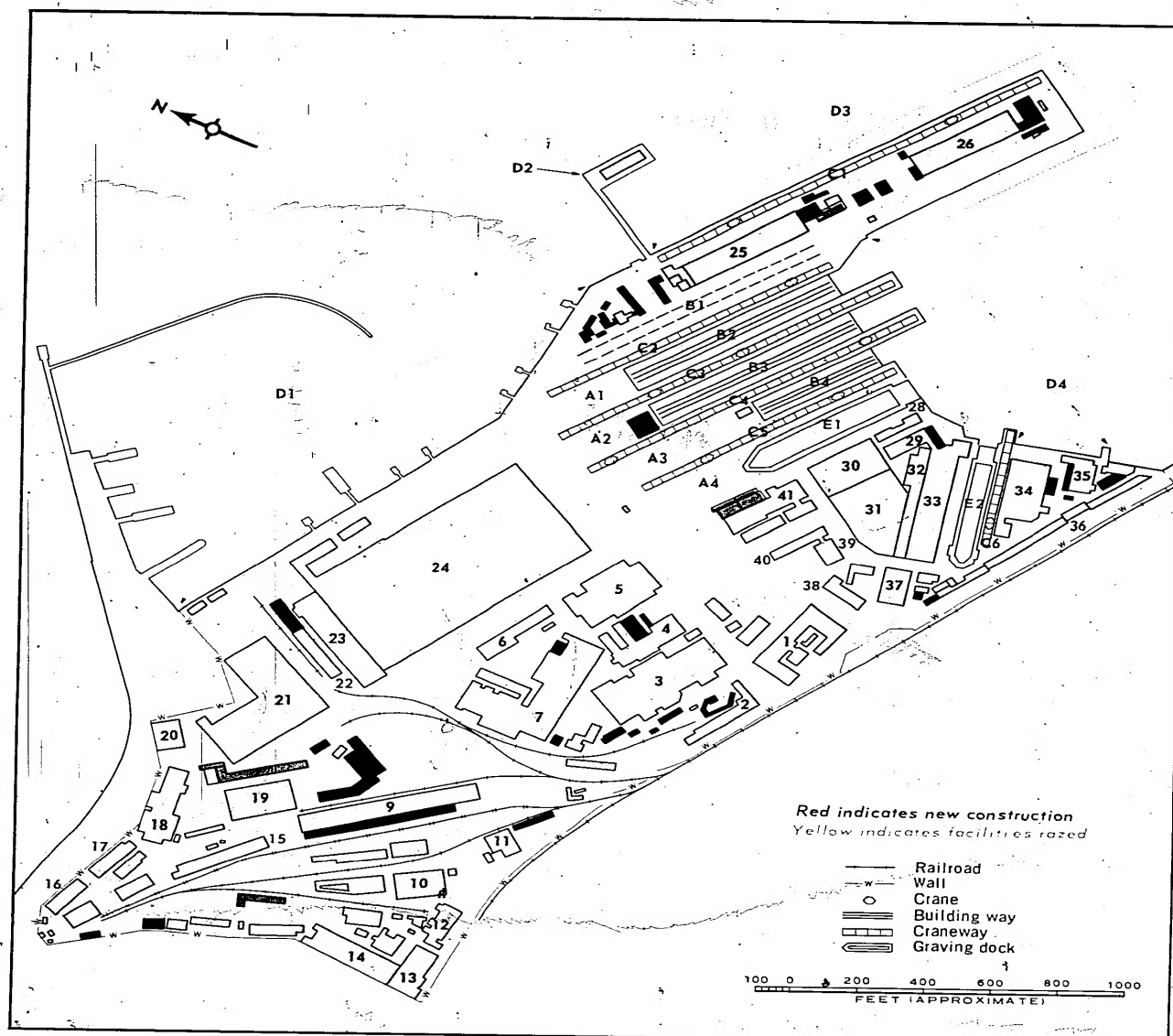


FIGURE 1. LOCATION OF DARIEN (LU-TA) SHIPYARD.

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Item

1 Adm

2 Stor

3 For

4 For

5 For

6 Stor

7 Prob

8 Stor

9 Stor

10 Stor

11 Main

12 Main

13 Main

14 Main

15 Stor

16 Main

17 Main

18 Stea

19 Prob

20 Stor

21 Fabr

22 Stor

23 Prob

24 Fabr

25 Prob

26 Prob

27 Stor

28 Stor

29 Stor

30 Fabr

31 Mach

32 Prob

33 Poss

34 Fabr

35 Mach

36 Shop

37 Prob

38 Poss

39 Poss

40 Poss

41 Prob

A1 Open

A2 Open

A3 Open

A4 Open

B1 Build

B2 Build

B3 Build

B4 Build

C1 Crane

C2 Crane

C3 Crane

C4 Crane

C5 Crane

C6 Crane

D1 Quay

D2 L-Hea

D3 Appro

D4 Fittin

E1 Gravin

E2 Gravin

FIGURE 2. DARIEN (LU-TA) SHIPYARD, LU-TA, CHINA.

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25X1

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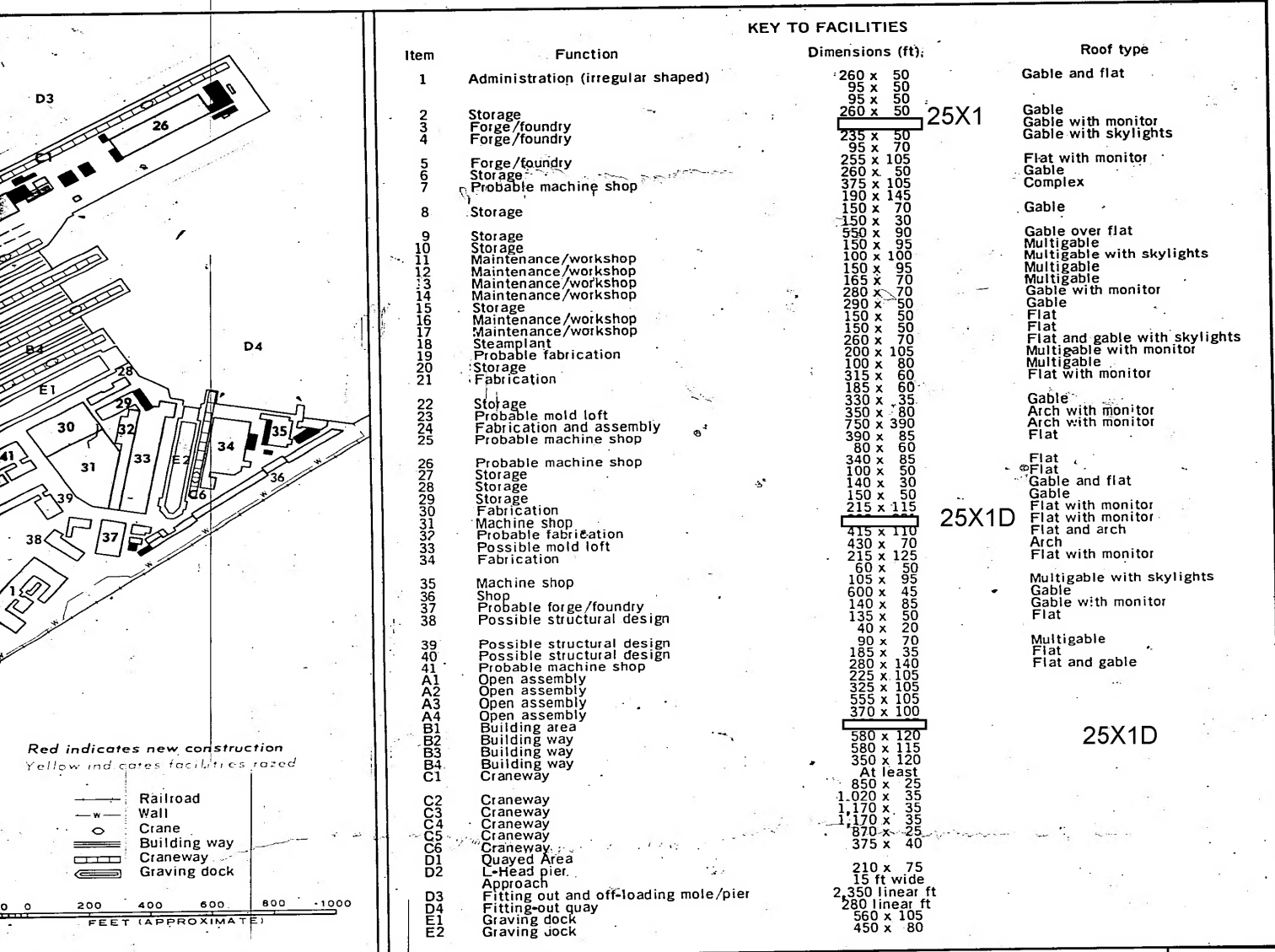


FIGURE 2. DARREN (LU-TA) SHIPYARD, LU-TA, CHINA.

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25X1

4

25X1

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25X1D

25X1D

25X1D

A possible submarine was observed in an early stage of construction in [] and a G-class SSB was observed in an advanced stage of construction in []. [] a G-class SSB was observed at Lu-ta Port Facilities, immediately east of this shipyard. Vessels are listed in Table 2, which reflects a transition from predominately commercial to predominately naval activity dur-

ing the []

25X1D

Photography of [] reveals minor changes in construction and razing and renovation of facilities. Photography of [] reveals the addition of one probable tower jib crane on craneway C1. Photography of [] reveals the removal of one tower hammerhead crane and the addition of one tower jib crane on craneway C3.

25X1D

Table 1. Vessels (Keyed to Figure 2)

25X1D

Location	Identification	Size (Ft) Configuration Hatches	Status	Identification	Size (Ft) Configuration Hatches	Status
B1	U I hulls (2)	70 x 20	U C	U I hulls (2)	70 x 20	U C
B2	Merchant	550 x 80 KKFKK 6	U C	Merchant	550 x 80 KKFKK 5	U C
B3	U I		Shed-covered	Possible SS		U C, Shed-covered security screens
B4	Merchant	390 x 50 KFK 1	U C	Merchant	390 x 50 KFK 1	U C
End of C1 Ends of C3 & C4				Tug		
				Floating Crane		
				Merchants (2)	490 x 60 KKFK 5	Fitting out
				Merchant	435 x 60 KFK 4	Fitting out
End of C5 End of C6	Lighters (2) Tug			Probable tug		
D1	Tug			Utility barge		
	Probable floating cranes (2)			Tugs (2)		
	Lighter			Utility barges (2)		
D3	Merchant	380 x 50 MFM 1	Fitting out	Possible small tanker	125 x 20	
				U I (2)	130 x 25	
				U I (2)		
	Merchants (3)	435 x 60 KFMK 5	Fitting out	Merchant	295 x 50 MFM 1	Off loading
	Merchant	550 x 80 KKFKK 6	Fitting out	Merchant	435 x 45 KFK 1	Fitting out
	Tugs (4)			Merchant	550 x 80 KKFKK 6	Fitting out
	Probable floating crane			Gordys-class ODD		
	U I (2)	70 x 20		Probable floating cranes (2)		
	U I	40 x 10		Tug		
				Dredge		
				U I (2)	70 x 20	

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25X1D

Table 1. Vessels (Keyed to Figure 2) Continued

25X1D				25X1D		
Location	Identification	Size (Ft) Configuration Hatches	Status	Identification	Size (Ft) Configuration Hatches	Status
D4	LST Possible OPF	345 x 55 230 x 30	Fitting out Repair	Probable tanker U I (3)	345 x 55	Fitting out
E1	Tug Merchant U I U I	135 x 60 MMFM 4	Fitting out repair U C or re- pair U C or re- pair	Merchant U I U I	135 x 60 KKFKK 4	Fitting out U C or re- pair U C or re- pair
E2	Merchant U I hull	320 x 35 120 x 20	U C U C	Possible OPF U I	230 x 30 120 x 20	Repair U C
25X1D				25X1D		
A1				MK-6-class LCM (8)		U C
B2	Shanghai-class Probable Shanghai-class PTF MK-6-class LCM (2) Tugs (2)		U C U C U C U C	MK-6-class LCM (2) Shanghai-class PTF (7) Tugs (2)		U C U C U C
B3	Possible G-class SSB		U C	G-class SSB		U C
B4	Merchant KFK 4	330 x 50	U C			
End of C3	Possible OPF U I	230 x 30 120 x 20	Repair U C	Possible OPF U I (2) Lighter	230 x 30 190 x 20	Repair Repair
Ends of C3 & C4	Tug Kronstadt-class PC (2) U I U I		Repair Repair			
End of C5						
D1	Merchant MK-6-class LCM (8) Tugs (2) Small tanker Utility barges (5) Lighter Floating crane U I (2) U I (2)	250 x 35 KEK 4 120 x 20 MF 25X1D 130 x 25	Fitting out	Tug Floating crane (3) Lighters (2) Utility barges (2)		
D2	Merchants (2) Merchants (4)	290 x 50 MEKM 4 135 x 60 KFK 4	Off loading Fitting out	Merchants (2) Merchant	290 x 50 MEKM 4 135 x 60 KFK 4	

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25X1D

Table 1. Vessels (Keyed to Figure 2) Continued

Location	Identification	Size (Ft) Configuration Hatches	Status	Identification	Size (Ft) Configuration Hatches	Status
D3	Merchant	550 x 75 KKFKK 5	Fitting out	Merchants (2)	435 x 65 KKFKK 5	Fitting out
	Merchant	230 x 40 MF		Merchant	540 x 80 KKFKK 5	Fitting out
	Utility barges (3)			U I	170 x 20	
D4	U I (3)	70 x 20		Merchants (3)	450 x 60 KKFKK 5	
	Floating crane			Lighter		
	Merchant	300 x 45 MMFM 4	Fitting out repair	Merchant	430 x 65 MMFM 4	Fitting out
	Merchants (4)	435 x 60 KKFKK 5	Fitting out repair	U I (2)		Fitting out repair
E1	Merchant	435 x 60 KFMK 4	Fitting out	Merchant	320 x 45	Repair
	U I		U I or repair			
	U I		U I or repair			
E2	Possible OPF	230 x 30	Repair			
	U I	120 x 20	U I			
25X1D						
B1	Probable MK-6-class LCM (9)		U I	Shanghai-class		U I
B2	Shanghai-class PTF (8)		U I	PTF (4)		U I
	Tug		U I	Tug		U I
B3	Shanghai-class PTF (3)		U I	Shanghai-class PTF (5)		U I
	Probable tugs (3)		U I	Tugs (4)		U I
	U I hull	70 x 25	U I			
	Tug		U I			
	U I hull	35 x 35	U I			
	Possible motorized crane boat	90 x 30	U I			
B4				Merchant hull sections (2)	95 x 35 (fwd) 120 x 35 (aft)	U I
End of C3				MK-6-class LCM (5)		Fitting out
End of C4				Lighter		
				Tug		
Ends of C3 & C4	W-class SS		Repair	U I (2)	75 x 15	
End of C5	Tugs (2)			Motorized crane boats (2)	90 x 25	Fitting out
	Motorized crane	90 x 30	Fitting out	Tugs (3)		
				Lighter		

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Table 1. Vessels (Keyed to Figure 2) Continued

25X1D				25X1D		
Location	Identification	Size (Ft) Configuration Hatches	Status	Identification	Size (Ft) Configuration Hatches	Status
D1	MK-6-class LCM (8)		Fitting out	Probable MK-6-class LCM (10)		Fitting out
	Probable MK-6-class LCM (2)		Fitting out	Possible LCP (1)	60 x 15	Fitting out
	Small tanker	135 x 30		Small tanker	135 x 30	
	Probable floating crane			Motorized crane boats (3)	90 x 30	
	Lighter			Floating cranes (2)		
	Utility barges (2)			Lighter		
	Motorized crane boats (2)	90 x 30		Tug		
				U I (4)	70 x 10	
	Probable small tanker	190 x 35				
	Merchant	KKFKK 5	Off loading	Gordys-class ODD (3)		
D3	Floating cranes (3)			W-class SS		Repair
	U I	60 x 15		Shanghai-class PTE (4)		Fitting out
	Utility barges (2)			Floating dry dock	190 x 80	
	Tugs (6)			Tugs (3)		
	Gordys-class ODD (2)			Floating crane		
	Shanghai-class PTF		Fitting out	Utility barge		
	Gordys-class ODD		Repair	Large tanker	350 x 50	Repair
	Merchant	135 x 60 KFK 4	Probable repair			
	Floating dry dock	190 x 80				
	Tug					
D4	Lighter					
E1				Merchant	110 x 60 MFM 5	Repair
				U I	120 x 25	Repair
E2				U I	90 x 20	Repair
				Small tanker	135 x 35	Repair

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REFERENCES

25X1D

PHOTOGRAPHY



MAPS

DIA. US Air Target Chart, Series 200, Sheet 0381-10HL, 2d ed, Aug 63 (SECRET)

ONI. Port Plan 21143, Jun 58 (SECRET)

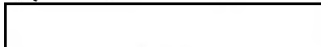
DIA. Town Plan 39872, Apr 64 (SECRET)

DOCUMENTS

25X1C



REQUIREMENT



NPIC PROJECT

12037 64 (partial answer)

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